

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>		
				Application Number	Based on 09/764,432 <b>10/70 6986</b>	
				Filing Date	January 19, 2001 <b>11/14/03</b>	
				First Named Inventor	Setsuo NAKAJIMA, et al.	
				Group Art Unit	2823	
Examiner Name	William M. Brewster					
Sheet	1	of	5	Attorney Docket Number	0756-7220	

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TN		5,962,871		Zhang et al.	10/05/99	
		5,830,784		Zhang et al.	11/03/98	
		5,736,420		Min et al.	04/07/98	
		5,700,333		Yamazaki	12/23/97	
		5,616,507		Nakai	04/01/97	
		5,605,847		Zhang	02/25/97	
		5,915,174		Yamazaki et al.	06/22/99	
		5,961,743		Yamazaki et al.	10/05/99	
		5,977,559		Zhang et al.	11/02/99	
		5,843,225		Takayama et al.	12/01/98	
		5,244,819		Yue	09/14/93	
		5,275,851		Fonash et al.	01/04/94	
		5,403,772		Zhang et al.	04/04/95	
		5,608,232		Yamazaki et al.	03/04/97	
		4,561,171		Schlosser	12/03/85	
		5,426,061		Sopori	06/20/95	
		5,085,711		Iwamoto et al.	02/04/92	
		5,380,372		Campe et al.	01/10/95	
TN		5,620,910		Teramoto	04/15/97	
		5,621,224		Yamazaki et al.	04/15/97	
		5,624,851		Takayama et al.	04/29/97	
TN		5,637,515		Takemura	06/10/97	

FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
TN		JP	06-268212			09/22/94	Abst.
TN		JP	03-229415			10/11/91	Abst.
TN		JP	06-333824			12/02/94	Abst.

Examiner Signature	T. NIKUMEN	Date Considered	4/28/05
--------------------	------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → {+}

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	Based on 09/764,432
				Filing Date	January 19, 2001
				First Named Inventor	Setsuo NAKAJIMA, et al.
				Group Art Unit	2823
				Examiner Name	William M. Brewster
Sheet	2	of	5	Attorney Docket Number	0756-7220

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
TN		5,639,698		Yamazaki et al.	06/17/97
		5,643,826		Ohtani et al.	07/01/97
		5,646,424		Zhang et al.	07/08/97
		5,654,203		Ohtani et al.	08/05/97
		5,656,825		Kusumoto et al.	08/12/97
		5,663,077		Adachi et al.	09/02/97
TN		5,677,549		Takayama et al.	10/14/97

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
TN		Hempel et al., "Needle-Like Crystallization of Ni Doped Amorphous Silicon Thin Films," pp. 921-924, March 1993, Solid State Communications, Vol. 85, No 11.	
		Kakkad et al., "Low Temperature Selective Crystallization of Amorphous Silicon," pp. 66-68, December 1989, Journal of Non-Crystalline Solids, Vol. 115.	
		Dvurechenski et al., "Transport Phenomena in Amorphous Silicon Doped by Ion Implantation of 3D Metals," pp. 635-640, November 1989, Phys. Stat. Sol., Vol. 95.	
		Hayzelden et al., "In situ Transmission Electron Microscopy Studies of Silicide-Mediated Crystallization of Amorphous Silicon," pp. 225-227, October 1991, Appl. Phys. Lett., Vol. 60, No. 2.	
		Kakkad et al., "Crystallized Si Films by Low-Temperature Rapid Thermal Annealing of Amorphous Silicon," pp. 2069-2072, November 1988, Journal of Applied Physics, Vol. 65.	
		Liu et al., "Polycrystalline Silicon Thin Film Transistors on Corning 7059 Glass Substrates Using Short Time, Low-Temperature Processing," pp. 2554-2556, February 1993, Appl. Phys. Lett., Vol. 62, No. 20.	
		Liu et al., "Selective Area Crystallization of Amorphous Silicon Films by Low-Temperature Rapid Thermal Annealing," pp. 660-662, June 1989, Appl. Phys. Lett., Vol. 55, No. 7.	
TN		Edelman et al., "Structure and Transport Properties of Microcrystalline SiGe Films," pp. 232-235, April 1997, IEEE 16 <sup>th</sup> Int'l Conference on Thermoelectrics.	

Examiner Signature	T. N. Brewster	Date Considered	4/28/05
--------------------	----------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → [ + ]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	Based on 09/764,432
				Filing Date	January 19, 2001
				First Named Inventor	Setsuo NAKAJIMA, et al.
				Group Art Unit	2823
				Examiner Name	William M. Brewster
Sheet	3	of	5	Attorney Docket Number	0756-7220

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TN		5,696,011		Yamazaki et al.	12/09/97	
		5,696,386		Yamazaki	12/09/97	
		5,696,388		Funada et al.	12/09/97	
		5,705,829		Miyanaga et al.	01/06/98	
		5,712,191		Nakajima et al.	01/27/98	
		5,744,824		Kousai et al.	04/28/98	
		5,789,284		Yamazaki et al.	08/04/98	
		5,796,116		Nakata et al.	08/18/98	
		5,828,429		Takemura	10/27/98	
		5,897,347		Yamazaki et al.	04/27/99	
		5,899,709		Yamazaki et al.	05/04/99	
		6,071,766		Yamazaki et al.	06/06/00	
		4,692,345		Nishiura et al.	09/08/87	
		5,147,826		Liu et al.	09/15/92	
		5,229,306		Lindberg et al.	07/20/93	
		5,327,007		Imura et al.	07/05/94	
		5,426,064		Zhang et al.	06/20/95	
		5,441,899		Nakai et al.	08/15/95	
		5,444,001		Tokuyama	08/22/95	
		5,481,121		Zhang et al.	01/02/96	
		5,488,000		Zhang et al.	01/30/96	
		5,492,843		Adachi et al.	02/20/96	
		5,501,989		Takayama et al.	03/26/96	
		5,508,533		Takemura	04/16/96	
		5,529,937		Zhang et al.	06/25/96	
		5,534,716		Takemura	07/09/96	
		5,543,352		Ohtani et al.	08/06/96	
		5,563,426		Zhang et al.	10/08/96	
	TN		5,569,610		Zhang et al.	10/29/96

Examiner Signature	T. NAKAJIMA	Date Considered	4/28/05
-----------------------	-------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → [ + ]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	Based on 09/764,432 15/706 986
				Filing Date	January 19, 2001 18/14603
				First Named Inventor	Setsuo NAKAJIMA, et al.
				Group Art Unit	2823
				Examiner Name	William M. Brewster
Sheet	4	of	5	Attorney Docket Number	0756-7220

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TN		5,569,936		Zhang et al.	10/29/96	
		5,580,792		Zhang et al.	12/03/96	
		5,585,291		Ohtani et al.	12/17/96	
		5,589,694		Takayama et al.	12/31/96	
		5,595,923		Zhang et al.	01/21/97	
		5,595,944		Zhang et al.	01/21/97	
		5,597,747		Chen	01/28/97	
		5,604,360		Zhang et al.	02/18/97	
		5,605,846		Ohtani et al.	02/25/97	
		5,606,179		Yamazaki et al.	02/25/97	
		5,612,250		Ohtani et al.	03/18/97	
		5,614,426		Funada et al.	03/25/97	
		5,614,733		Zhang et al.	03/25/97	
		5,616,506		Takemura	04/01/97	
		6,077,731		Yamazaki et al.	06/20/00	
		4,994,399		Aoki	02/19/91	
		6,251,712		Tanaka et al.	06/26/01	
		6,048,758		Yamazaki et al.	04/11/00	
		6,218,219		Yamazaki	04/17/01	
		6,242,290		Nakajima et al.	06/05/01	
		6,156,628		Ohnuma et al.	12/05/00	
		6,133,073		Yamazaki et al.	10/17/00	
		5,961,743		Yamazaki et al.	10/05/99	
		5,893,730		Yamazaki et al.	04/13/99	
		5,705,829		Miyanaga et al.	01/06/98	
		6,424,012		Kawasaki et al.	07/23/02	
		6,326,642		Yamazaki et al.	12/04/01	
		6,281,552		Kawasaki et al.	08/28/01	
		6,197,624		Yamazaki	03/06/01	
		5,998,841		Suzawa	12/07/99	
		5,895,935		Yamazaki et al.	04/20/99	
TN		6,383,852		Zhang et al.	05/07/02	

Examiner Signature	T. NGUYEN	Date Considered	4/28/05
-----------------------	-----------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → (+)

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	Based on 09/764,432 10/206986
				Filing Date	January 19, 2001
				First Named Inventor	Setsuo NAKAJIMA, et al.
				Group Art Unit	2823
				Examiner Name	William M. Brewster
Sheet	5	of	5	Attorney Docket Number	0756-7220

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TN		6,380,046		Yamazaki	04/30/02	
TN		6,359,320		Yamazaki et al.	03/19/02	
		<del>6,346,070</del>		<del>Ohmatsuzawa et al.</del>	<del>02/12/02</del>	

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature	T. N. Brewster	Date Considered	4/28/05
-----------------------	----------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

